

Listing of Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Claim 1 (canceled)

Claim 2 (currently amended): A ~~[[The]]~~ method of ~~claim 1~~ monitoring a digital camera comprising:

determining whether an amount of exposure is inappropriate and whether shakiness is present during the photographing of an object and notifying a user of the digital camera when the amount of exposure is inappropriate or when shakiness is present, wherein determining whether the amount of exposure is inappropriate and whether shakiness is present comprises includes:

calculating a focus value of the object;

calculating a lower limit value of a compressed file size wherein the lower limit value of the compressed file size corresponds to a focus value of the object at a compression rate and a resolution set by the user; and

determining that the amount of exposure is not appropriate and shakiness is present when the size of a compressed file of image data obtained from the photographing of the object is smaller than the lower limit value of the compressed file size.

Claim 3 (currently amended): A ~~[[The]]~~ method ~~as claimed in claim 2~~, of monitoring a digital camera comprising:

determining whether an amount of exposure is inappropriate and whether shakiness is present during the photographing of an object and notifying a user of the digital camera when the amount of exposure is inappropriate or when shakiness is present, wherein determining whether the amount of exposure is inappropriate and whether shakiness is present includes:

calculating a focus value of the object;

calculating a lower limit value of a compressed file size wherein the lower limit value of the compressed file size corresponds to a focus value of the object at a compression rate and a resolution set by the user; and

determining that the amount of exposure is not appropriate and shakiness is present when the size of a compressed file of image data obtained from the

photographing of the object is smaller than the lower limit value of the compressed file size;

wherein, assuming that X is the focus value of the object, N is the number of samples, X_i is the focus value of an i-th sample, Y_i is the size of a compressed file size of the i-th sample at the compression rate and resolution set by the user, a is

$$\frac{\left(\sum_{i=1}^N X_i\right)\left(\sum_{i=1}^N Y_i\right) - N\left(\sum_{i=1}^N X_i Y_i\right)}{\left(\sum_{i=1}^N X_i\right)^2 - N\left(\sum_{i=1}^N X_i^2\right)} \text{ and b is } \frac{\left(\sum_{i=1}^N Y_i\right)\left(\sum_{i=1}^N X_i^2\right) - N\left(\sum_{i=1}^N X_i\right)\left(\sum_{i=1}^N X_i Y_i\right)}{N\left(\sum_{i=1}^N X_i^2\right) - \left(\sum_{i=1}^N X_i\right)^2}, \text{ the lower limit}$$

value of the compressed file size is set as $k(aX+b)$ in which $0 < k < 1$.

Claim 4 (original): The method as claimed in claim 3, wherein k is between about 0.7 and 0.8.

Claim 5 (original): A means for determining whether the amount of exposure is inappropriate and whether shakiness is present during the photographing of an object with a digital camera comprising:

a means for calculating a focus value of the object;

a means for calculating a lower limit value of a compressed file size wherein the lower limit value of the compressed file size corresponds to a focus value of the object at a compression rate and a resolution set by a user; and

a means for determining that the amount of exposure is not appropriate and shakiness is present when the size of a compressed file of image data obtained from the photographing of the object is smaller than the lower limit value of the compressed file size.